

CLAIMS:

1           1.    A method for making a glued-together screen assembly for  
2 use in a vibratory separator, the method comprising  
3               producing at least one layer of screening material  
4               with a glue pattern on the surface thereof,  
5               placing the at least one layer of screening material  
6               on heating apparatus,  
7               heating the at least one layer of screening material  
8               with the heating apparatus,  
9               placing a secondary member on the at least one layer  
10              of screening material,  
11              heating together the at least one layer of screening  
12              material and the secondary member to combine the at least one  
13              layer of screening material and the at least one secondary  
14              member forming a first screen assembly.

1           2.    The method of claim 1 wherein the at least one layer of  
2 screening material is a layer of coarse mesh.

1           3.    The method of claim 1 wherein glue of the glue pattern on  
2 the at least one layer of screening material is cured glue prior to  
3 placing the at least one layer of screening material on the heating  
4 apparatus.

1           4.    The method of claim 1 wherein glue of the glue pattern is  
2 moisture-curing hot melt glue.

1           5.    The method of claim 1 wherein the at least one layer of  
2 screening material is heated sufficiently to soften glue of the  
3 glue pattern.

1           6.    The method of claim 1 wherein the secondary member is at  
2 least one layer of secondary screening material.

1           7.    The method of claim 6 wherein the secondary screening  
2 material comprises a fine mesh.

1           8.    The method of claim 6 wherein the at least one layer of  
2 secondary screening material is two layers of secondary screening  
3 material.

1           9.    The method of claim 8 wherein the two layers of secondary  
2 screening material are glued together.

1           10.   The method of claim 1 wherein the secondary member is a  
2 frame for a screen assembly.

1           11.   The method of claim 10 wherein the frame comprises an  
2 array of tubular members.

1           12.   The method of claim 10 wherein the frame is coated with  
2 adhesive material.

1           13.   The method of claim 12 wherein the secondary member is  
2 heated sufficiently so that at least some of the adhesive material  
3 flows onto the at least one layer of screening material to adhere  
4 together the secondary member and the at least one layer of  
5 screening material.

1           14.   The method of claim 12 wherein the adhesive material is  
2 powderized epoxy material.

1           15.   The method of claim 1 further comprising  
2                removing the first screen assembly from the heating  
3 apparatus,  
4                emplacing the first screen assembly on first cooling  
5 apparatus adjacent the heating apparatus, and  
6                cooling the first screen assembly with the cooling  
7 apparatus.

1           16.   The method of claim 15 further comprising  
2                while the first screen assembly is cooling, forming  
3 a second screen assembly as in Claim 1.

1           17.   The method of claim 16 further comprising  
2                removing the second screen assembly from the heating  
3 apparatus,  
4                emplacing the second screen assembly on second  
5 cooling apparatus, and  
6                cooling the second screen assembly with the second  
7 cooling apparatus.

1           18.   The method of claim 17 further comprising

2 while the second screen assembly is cooling, forming  
3 a third screen assembly as in Claim 1.

1 19. A method for making a screen assembly for use in a  
2 vibratory separator, the method comprising

3 producing at least one layer of screening material  
4 with glue thereon,

5 placing the at least one layer of screening material  
6 on heating apparatus,

7 heating the at least one layer of screening material  
8 with the heating apparatus,

9 placing a frame on the at least one layer of  
10 screening material on the heating apparatus,

11 heating together the at least one layer of screening  
12 material and the frame to combine the at least one layer of  
13 screening material and the frame forming a screen assembly.

1 20. The method of claim 20 further comprising  
2 placing a secondary member on the frame.

1 21. A method for making a glued-together screen assembly for  
2 use in a vibratory separator, the method comprising

3 gluing together at least two layers of screening  
4 material with heated glue producing a glued-together screen  
5 combination,

6 placing the glued-together screen combination on  
7 cooling apparatus, and

8 cooling the heated glue with the cooling apparatus.

1 22. A screen assembly made by the method of Claim 1.

1 23. A screen assembly made by the method of Claim 20.